Lucy EDelaney

graduate student in biological sciences

contact
ldelan5@uic.edu

website
ledelaney.github.io/

github
ledelaney

programming
R

markup languages
$LaTeX$, HTML, Markdown, & RMarkdown

licenses
Illinois Substitute Teaching License & FCC Technician Class Radio License

Interests

Evolution outreach & education, macroevolution, the evolution of plant breeding systems, the nature of adaptation, data manipulation & visualization with `tidyverse`, `R` for undergraduate education

Education

PhD student in Ecology & Evolutionary Biology — University of Illinois at Chicago
Thesis: *The Process of Natural Selection: Resultant patterns and how we understand them*

MA in Molecular & Cellular Biology, 2016 — Hunter College (CUNY)

BS in Forensic Molecular Biology, Philosophy, 2012 — John Jay College (CUNY)

Teaching

BIOS 220 *Molecular & Mendelian Genetics* — 2019-Present
Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online format. Responsible for teaching discussion section, creating digital course materials and exams, grading, and Blackboard administration.

BIOS 230 *Ecology & Evolution* — Spring 2019
Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

BIOS 430 *Evolution* — 2017-2018
Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly office hours and debugging, quiz materials, and grading of `R` programming assignments.

BIOS 120 *Biology of Populations & Communities* — 2016-2017
Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for weekly laboratory instruction, office hours, and grading.

Professional Experience

Tutor at Nurturing Wisdom Tutoring — 2018-Present
Highly-rated individual tutoring for grades 7-12 in test preparation (SATs and HSETs), science, mathematics, and writing.

Forensic Molecular Biologist at NYC Office of Chief Medical Examiner — 2012-2015
Examined evidence for the presence of biological fluids, performed serological and DNA analysis techniques, analyzed data and performed statistical analysis, wrote reports, and provided expert scientific testimony in court.

Health Research Intern at NYC Deptartment of Health — 2011-2012
Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness and response, public health and outreach programs in environmental disease control and prevention, and emerging viral infections.

Field Manager & Administrative Assistant at Working Families Party — 2008-2011
Responsible for payroll, managing employees' healthcare coverage, bank deposits, and data entry. Organized informational events for the public, and served as Field Manager for multiple election and fundraising campaigns.

Updated on May 4, 2020

Extracurricular

- 2020-Present Developed R functions for automated Blackboard grade finalization.
- 2020-Present Created a website to manage student materials and tutorials in BIOS 220: Genetics
- 2017-Present Reviewer for International Journal of Botany, Oxford Bibliographies
- 2018 Created programming tutorials for use in BIOS 331: General Ecology Laboratory
- 2018 Recipient of the Biological Sciences Department Graduate Teaching Award
- 2017 Accepted to NSF-funded summer workshop on diversification rates & macroevolution
- 2017 Accepted to MicroMORPH Plant Anatomy summer course at Harvard University
- 2016 General horticulture volunteer at Garfield Park Conservatory

Presentations

Annual Meeting of the Botanical Society of America Poster 2018
Delaney, Lucy E, Ramanauskas, K., & Igić, B., Breeding Systems in the Legumes.

Publications

Delaney, Lucy E, Ramanauskas, K., & Igić, B. (2020a). Breeding systems in the legumes: What do we know? *Manuscript in Prep.*

Delaney, Lucy E, Ramanauskas, K., & Igić, B. (2020b). Breeding systems in the orchids. *Manuscript in Prep.*

Updated on May 4, 2020